

Screening of polyphenols in tobacco (*Nicotiana tabacum*) and determination of their antioxidant activity in different tobacco varieties

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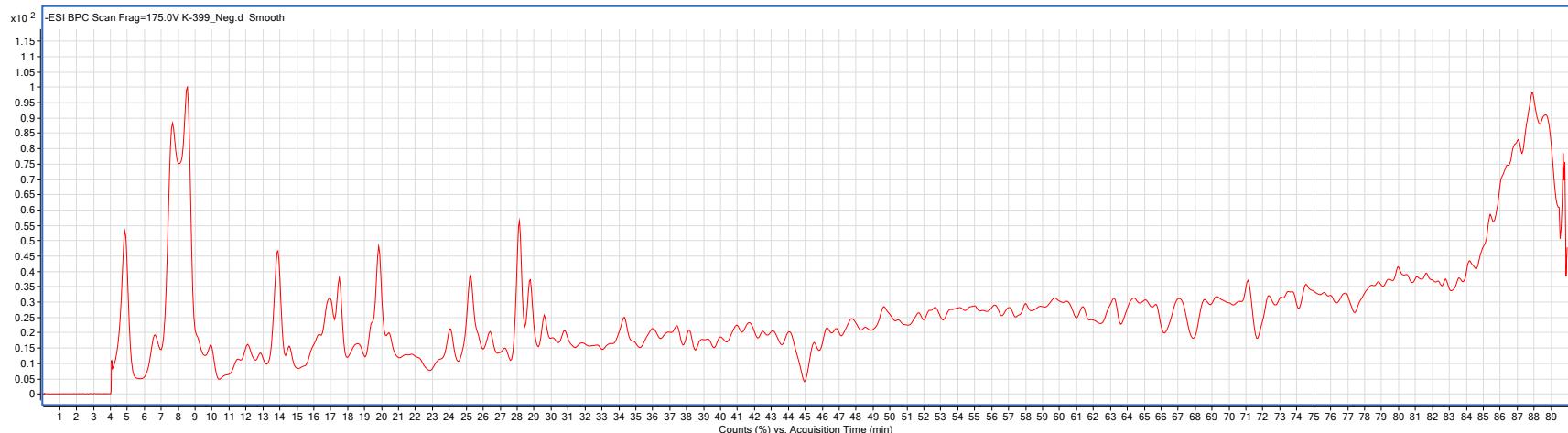
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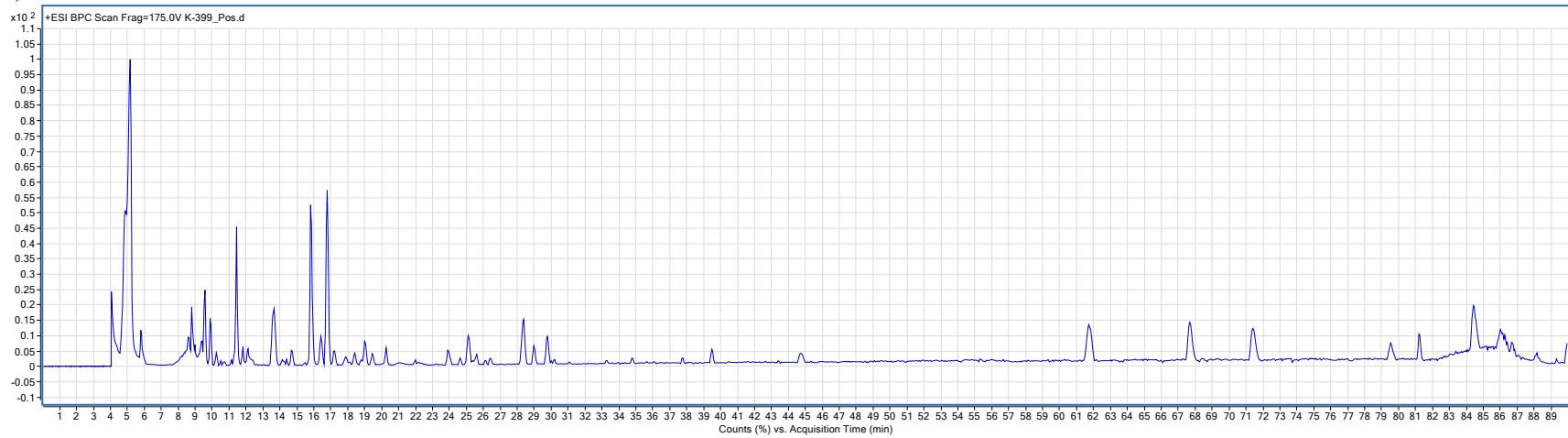
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s2

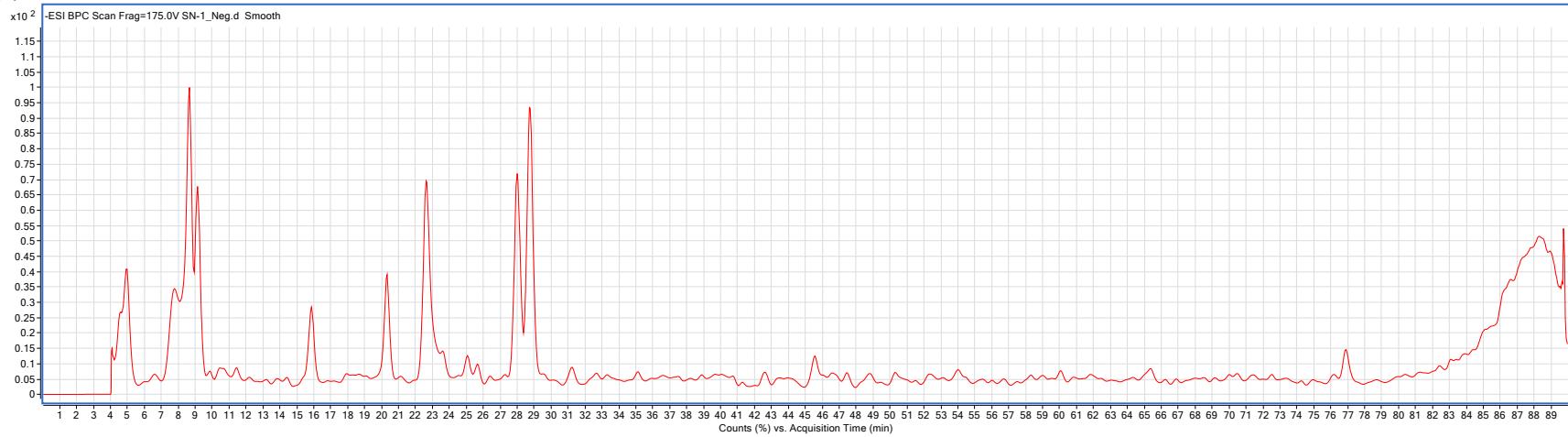
(a)



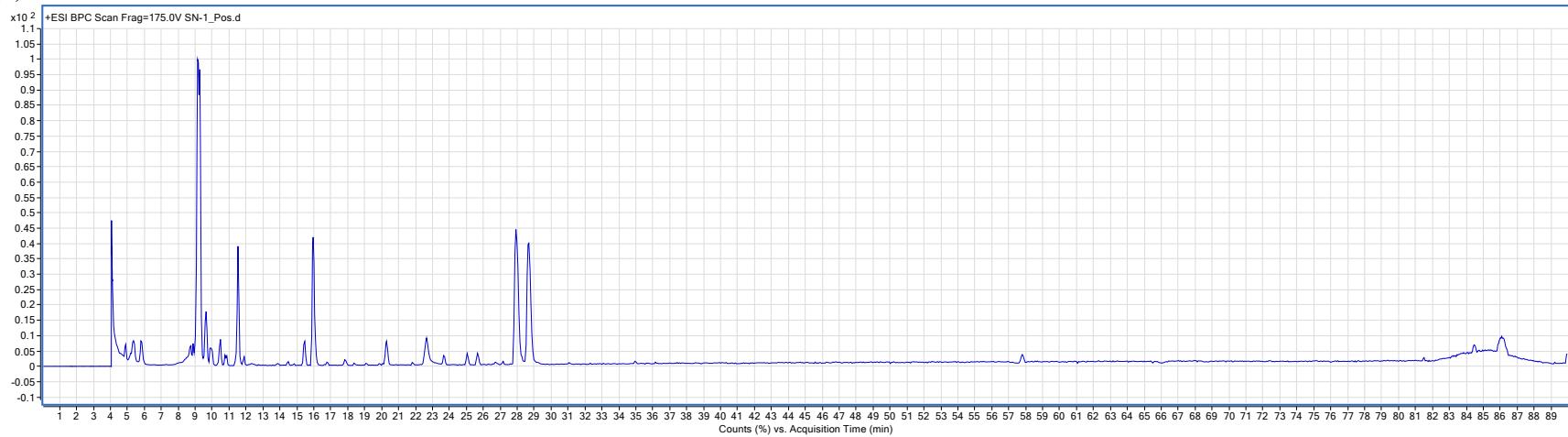
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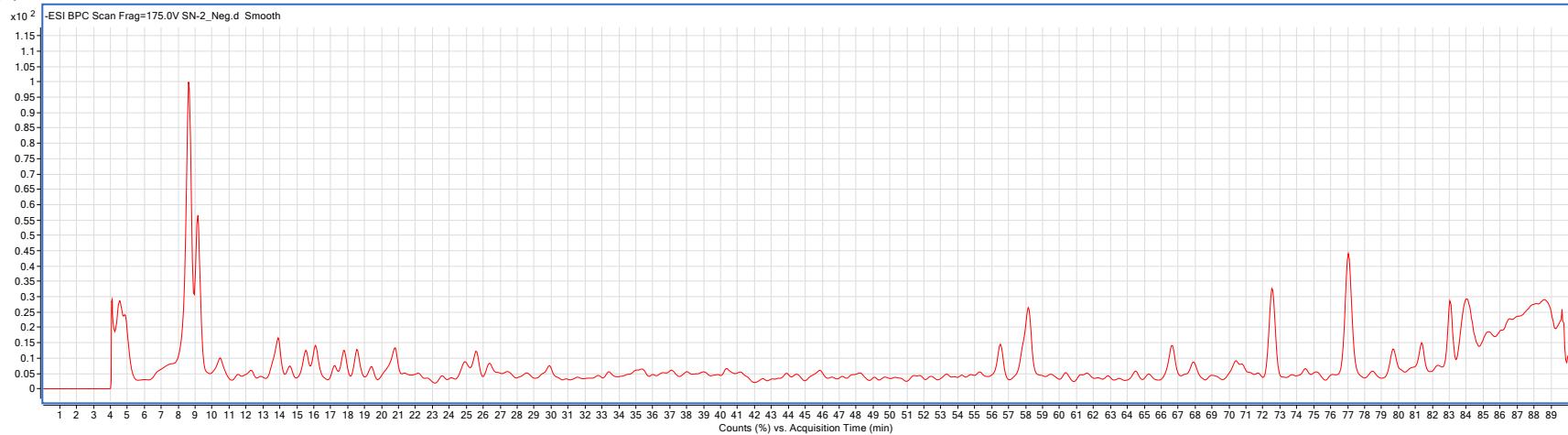
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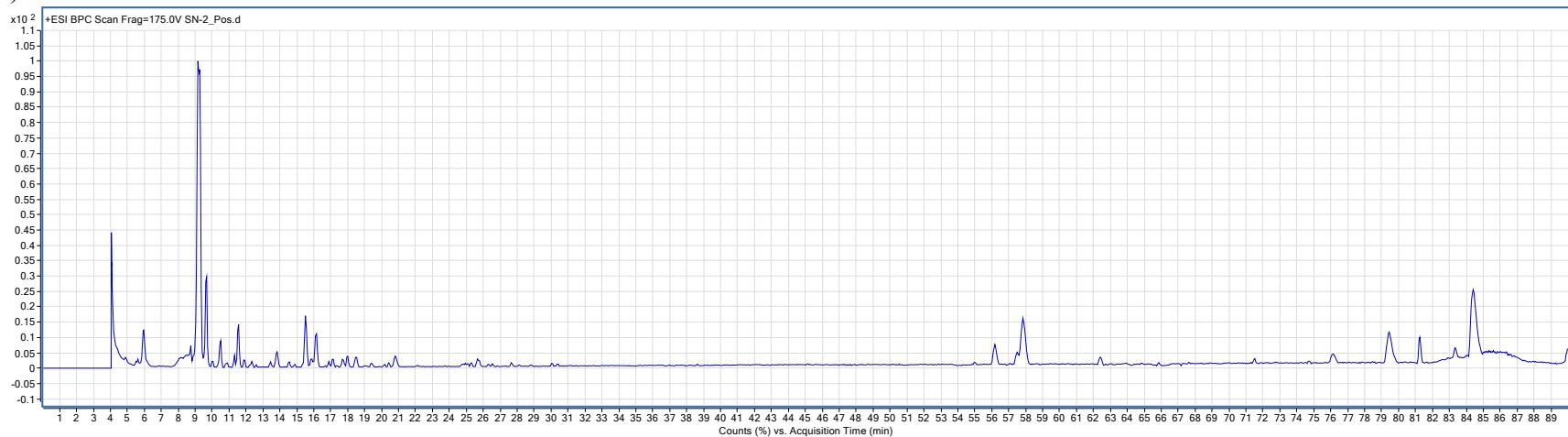
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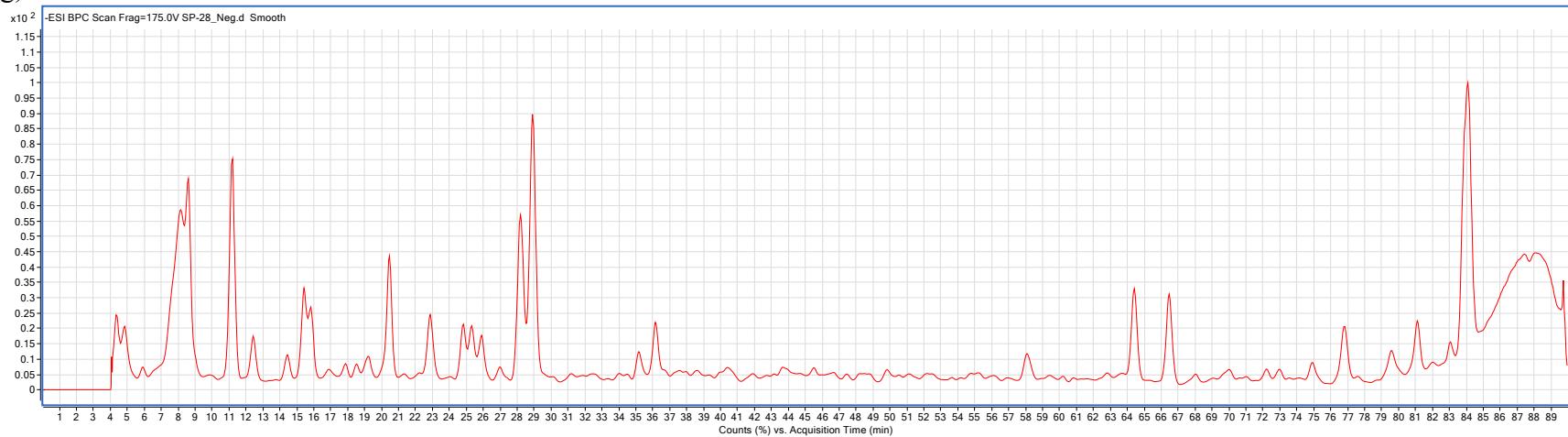
(e)



(f)



(g)



(h)

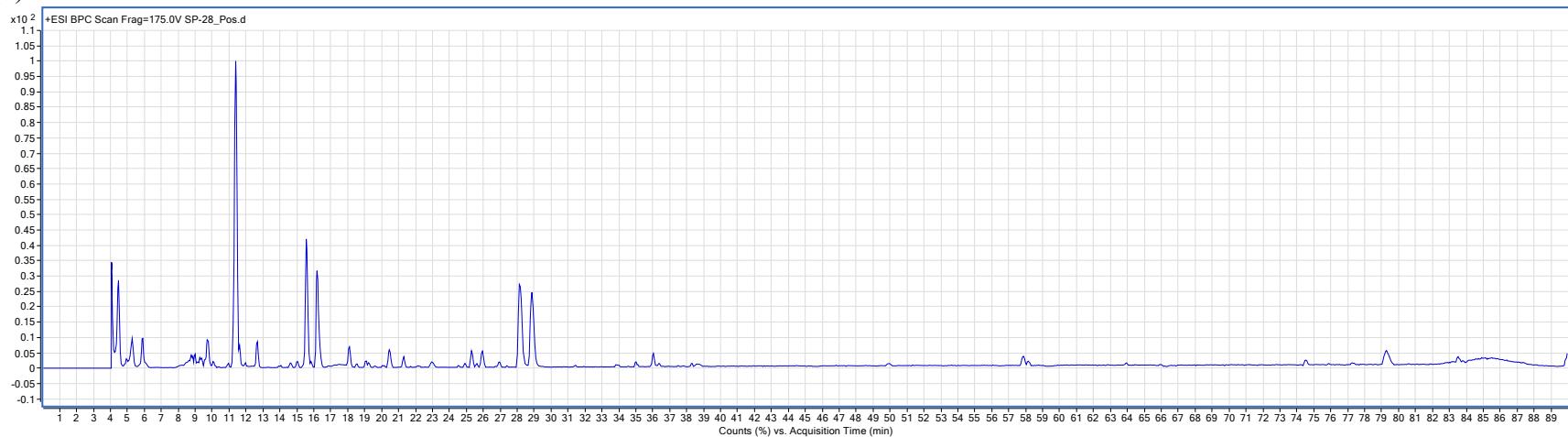
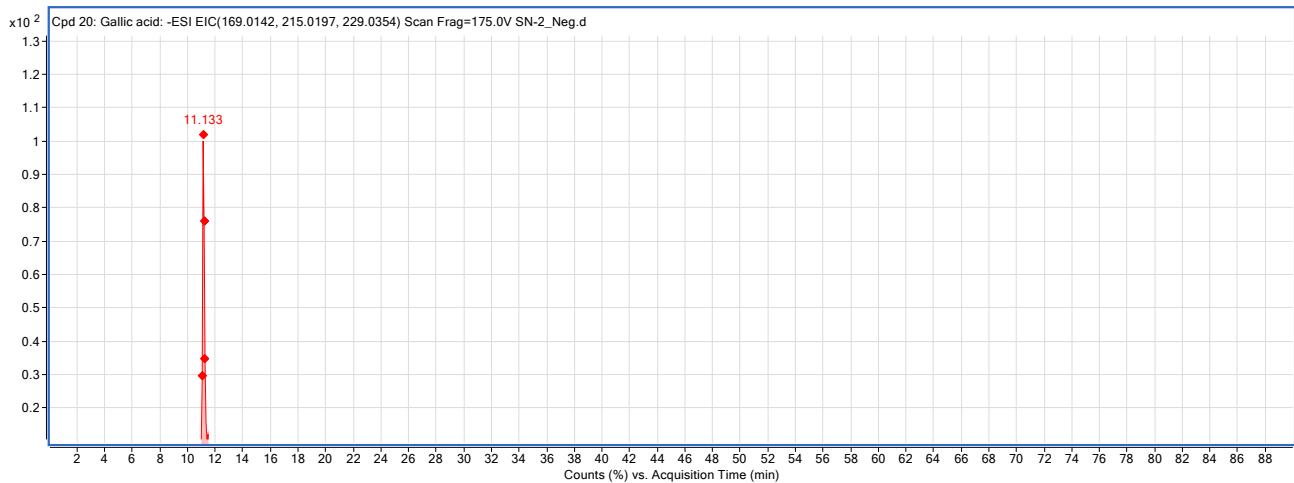


Figure (S1): LC-ESI-QTOF-MS/MS basic peak chromatograph (BPC) for characterization of phenolic compounds of tobaccos; **(a)** Tobacco K-399 in negative ionization mode; **(b)** Tobacco K-399 in positive ionization mode; **(c)** Tobacco SN-1 in negative ionization mode; **(d)** Tobacco SN-1 in positive ionization mode; **(e)** Tobacco SN-2 in negative ionization mode; **(f)** Tobacco SN-2 in positive ionization mode; **(g)** Tobacco SP-28 in negative ionization mode; **(h)** Tobacco SP-28 in positive ionization mode.

(a)



(b)

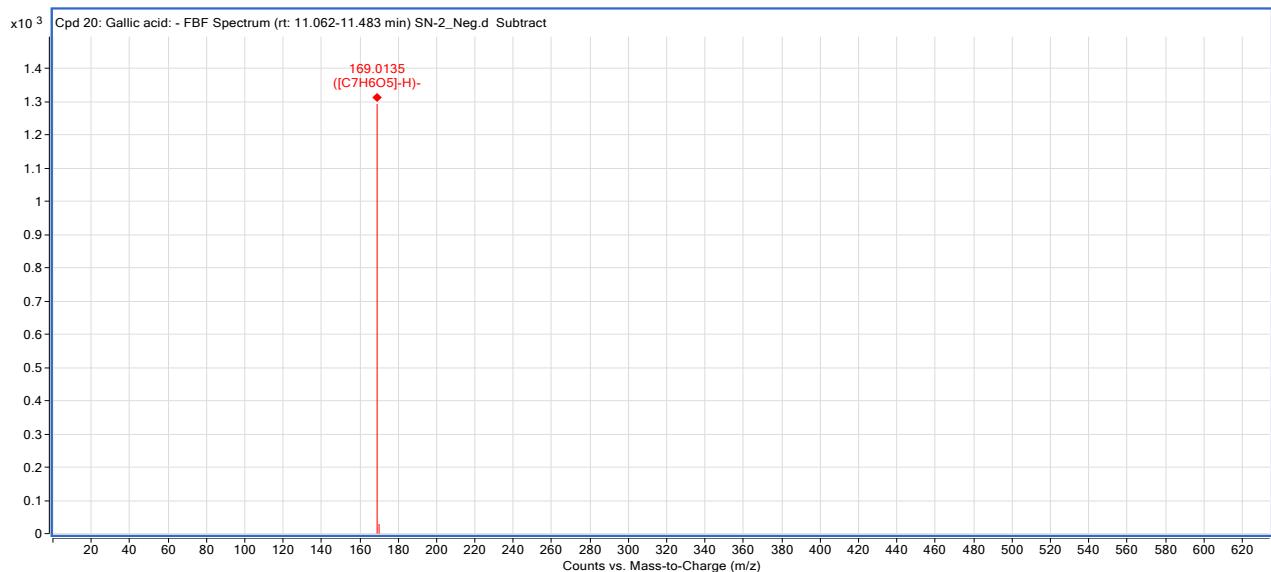


Figure (S2). Extracted ion chromatogram and the mass spectrum. (a) A chromatograph of Gallic acid (Compound 1, Table 3), Retention time (RT = 11.133 min) in the negative mode of ionization (ESI- / $[M-H]^-$) identified and characterized in tobacco SN-2; (b) Mass spectra of Gallic acid showing an observed m/z 169.0135 in tobacco SN-2.